Science News Index

Vol. 161, Nos. 1–26, January–June 2002, pp. 1–416

A

Aaltonen, Lauri A. 149
Abbott, Dallas 380
Abel, Tom 362
Abraham, Spencer 39
Abrahamson, John 88
Acrylamide 277
Actin 366
Acyclovir 29
Adaptive optics 62
Adelberger, Kurt L. 244
Adenoviruses 173, 285
Adey, W. Ross 404
Adler, Robert F. 142
Adolescents 301
Adsorption 31
Advanced Camera for Surveys 132, 278
Aerodynamics 330
Aerogels 87
Aerosols 87
Aging 36, 47, 67, 277, 291
Aging, cellular 291
Agricultural biotechnology 77
Agriculture 381
Aguilar, Manuel 314
Aharonian, Felix 260
AIDS 29, 132, 360
Aircraft 387
Ajayan, Pulickel 214, 333
Aki, Wael 345
Akino, Toshiharu 340
Akira, Shizuo 84
Alberts, Susan 269
Alcohol 67, 294
Aldehydes 271
Aldwell, Frank E. 302
Algae 39, 61, 205, 275
Alivisatos, Paul 200
Alkaloids 229
Allan, Janet D. 266
Allen, Paul 313
Allergies 381
Alligators 310
Alroy, John 190, 373
Altig, Ronald 26
Altitude 334
Altruism 104
Aluminum gallium arsenide . . 309
Aluminum oxide 141
Alvard, Michael 105
Alzheimer's disease . . 67, 116, ... 174, 141, 307
Amalthea 125
Amber 202
Americas, human occupation 222, 314
Amino acids 195, 221
Ammonia 356
Amyloid protein 307
Amyloidosis 307
Andersen, Morten 171
Anderson, Don 39
Anderson, Paul 227
Andreas, Edgar L. 78
Angina 164
Angiogenesis 139
Animal rights 381
Animals, communication . 221
Animals, laboratory. *See also* Animal rights 381
Ankley, Gerald T. 12
Antarctica 197, 253
Anthrax 190, 317
Anthropology 179, 328
Antibiotics . . . . . 72, 181, 253, ... 259, 406
Antibiotics, resistance to 164, 181
Antibodies 4, 23, 85, 312
Antidepressants 318, 350
Antipsychotics 83
Antman, Karen 254
Ants 245, 340
Anversa, Piero 94
Apes 195, 243
Apoptosis 134, 139
Appetite 107, 366
Appleton, Philip N. 293
Arabidopsis 211, 395
Archaea 275
Archaeology 45, 195, 328
Arcidiacono, Steven 38
Argon 184, 221
Arithmetic 392
Arkani-Hamed, Nima 187
Arking, Dan E. 36
Armstrong, Clay 152
Armstrong, Joseph E. 174
Arnold, Kathryn E. 40
Arsenic 214
Arshavsky, Vadim 197
Arslanian, Silva 408
Art 45
Art, conservation 299
Arthritis, rheumatoid 312
Arthropods 90
Artymowicz, Pawel 281
Ascherio, Alberto 4
Ash, Mitchell G. 155
Asteroids 147, 184, 317
Astronomy 277, 301, 356
Astrophysics 246
Atala, Anthony 357
Atherosclerosis 214
Atkins, Dale 137
Atkinson, Richard L. 173
Atmospheric chemistry . . 110, ... 346
Atomic physics 350
Attention deficit disorder. 157, ... 350
Aubry, Keith 67
Autism 408
Autoimmune diseases . . 4, 85
Avalanches 136
Aviram, Ari 229
Awad, Adnan 236
Axons 221, 403

B

B cells 21
Backman, Dana E. 388
Bacteria . . . 5, 24, 99, 259, 261, ... 317, 339, 366
Bacterial motors 180
Bacterial resistance 29
Bacterial vaginosis 72
Bacteriophages 23, 197
Baddour, Larry 99
Baird, Donna D. 149
Balaban, Naomi 99
Baldry, Ivan 62
Ball lightning 87
Ballast exchange 234
Balloons 77
Balogh, Steven J. 148
Bando, Yoshio 110
Bar-Yosef, Ofer 117
Baraff, David 56
Barchowsky, Aaron 214
Bard, Allen J. 36
Bargh, John A. 284
Barnes, Joshua 278
Barnes, Stephen 325
Barrett, Alan D.T. 165
Barrett, Craig 70, 326
Barrett, Spencer C.H. . 54, 372
Bartel, David P. 25
Bartelt, Norman C. 229
Bartke, Andrezej 77
Bartley, Julie 276
Barton, Christopher C. 76
Bartoneliosis 78
Baum, David 395
Baxter, Lewis R. 20
Bean, Bruce 153
Bean, Frank D. 118
Beard, Christopher 166
Bears 250
Bechtold, Jill 101
Beck, Melinda A. 173
Becker, Luann 69
Becklin, Eric E. 280
Beebe, Reta F. 85
Beer 67
Behavior 245
Beichman, Charles A. 280
Bekoff, Marc 267
Beliefs 7
Bell, Jim 355
Belousov-Zhabotinsky reaction 349
Belser, Carroll G. 249
Benitez, Narciso 69
Bennetts, Robert E. 6
Bennetzen, Jeffrey 211
Benoist, Christophe 312
Benowitz, Larry I. 405
Benowitz, Neal L. 38
Bereavement 131
Berenbaum, May 294
Berg, Howard C. 180
Bernard, Stephen A. 115
Bernier, Patrick 201
Bernstein, Max 195
Berry, Donald 265
Bertalmio, Marcelo 299
Bertozzi, Andrea L. 300
Beutler, Bruce 84
Bevins, Charles 133
Bidleman, Terry F. 93
Bielak, Jacobo 286
Biewener, Andrew A. 161
Big Bang 277
Bilbo, Staci D. 182
Bildsten, Lars 246
Bile acids 309
Bilu, Yuri F. 325
Biocides 234
Biodiversity *See* Biological diversity
Biofilms 59
Biological control 126
Biological diversity . . 190, 230, ... 373
Biomaterials 13, 262
Biomimetics 38
Bioreactors 213
Biotechnology 38, 77, 213
Bioterrorism 54, 317
Bipolar disorder 355
Birds . . . 6, 109, 120, 141, 190, ... 245, 381, 397
Birkeland, Karl W. 138
Birth 109
Birth weight, low 109
Bissonnette, Luc 342
Bjeldanes, Leonard 341
Black holes 187, 260
Blackley, Seamus 57
Blackstone, Neil W. 134
Blagrove, Mark 342
Blakemore, William 221
Blankenberg, Francis 140
Blattner, William A. 361
Blitz, Leo 21, 123
Blood 230, 334
Blood clots 244
Blood pressure 237
Bloom, Joshua S. 228
Bloom, Stephen 108
Blossey, Bernd 118
Bodaly, Drew 149
Body dysmorphic disorder . 20
Body odor 366
Body weight 107
Boehlert, Sherwood L. 86
Bohringer, Karl F. 52
Boldt, Elihu 260
Bolli, Roberto 94
Bolton, Scott 174
Bonanno, George A. 132
Bone marrow 390
Bose-Einstein condensation 350
Boss, Alan P. 62, 372
Boucher, Richard C. 59
Boucher, Yan 275
Bourgeois, Olivier S. 292
Boynton, William V. . . 149, 355
Brady, James E. 314
Brain . . 67, 115, 166, 189, 227, ... 276, 285, 307
Brain development . . 166, 325
Brain, imaging . . 125, 285, 318
Brain, injuries 374
Brain, language 325, 374
Brandhorst, Bruce P. 395
Brandt, Lawrence J. 72
Brannon, Elizabeth M. 392
Braun, Andreas 275
BRCA1 . . . . . 259, 323
BRCA2 . . . . . 259, 323
Breitner, John C.S. 37
Bremer, Christoph 140
Brent, Joseph 253
Breteler, Monique M.B. 67
Bridle, Sarah L. 5
Briggs, Winslow R. 249
Broccoli 340
Broer, Dirk J. 349
Bromm, Volker 362
Brooks, Harold E. 296
Broughton, Roy 121
Brown, Robert L. 136
Brownback, Sam 163
Brum, Jeff 345
Bruner, Jerome 156
Bryan, Greg L. 362
Bryers, James 13
Bubbles 147
Buchanan, Bryant W. 248
Buckholtz, Neil S. 141
Budget, federal 20, 85
Buell, Robin 211
Buhler, Karl 155
Bulk modulus 211
Burch, Preston 132
Burke, Allen P. 244
Burke, Wylie 323
Burkholder, JoAnn M. 39
Burland, Tamsin 350
Burmester, Thorsten 230
Burnham, Denis 349
Burns 294
Burrows, Adam S. 372
Bursten, Bruce 221
Busk, Leif 278
Butler, Peter C. 408
Butterflies 230
Buysse, Daniel J. 173
Bychkov, Vladimir 88

C

C-reactive protein 244
Cacace, Fulvio 110
Cadmium 15
Calorie restriction . 61, 77, 291
Calzetti, Daniela 358
Camerer, Colin 104
Camilli, Andrew 358
Cancer . . . . . 47, 116, 139, ... 232, 254, 264, 285, ... 371, 403, 404
Cancer, bone 134
Cancer, breast . . 68, 259, 264, ... 323
Cancer, chemotherapy 68, 254
Cancer, colorectal . . . 253, 309
Cancer, genetic basis 259
Cancer, leukemia 8, 371
Cancer, lung 254, 397
Cancer, lymphoma 21
Cancer, melanoma 126
Cancer, ovarian 323
Cancer, pancreatic 254
Cancer, prostate 51, 317
Cancer, risk 301
Cancer, squamous cell . . . 126
Cancer, stomach 340
Cancer, therapy 285
Canelles, Matilde 69
Cannibalism 93
Cannon, Stephen 152
Cantrell, Ronald P. 211
Capasso, Federico 115
Capecchi, Mario R. 20
Capsaicin 101, 294
Carbohydrates 232, 308
Carbon 51, 93, 214
Carbon dioxide 15
Carbonaceous chondrites. 184
Carcinogens 277
Cardiovascular disease. *See* Heart disease
Carey, Stephen N. 76
Carey, Susan 392
Carolton, Richard 23
Carotid arteries 214
Carpeting 271
Carpi, Anthony 365
Carpten, John 51
Cartwright, Rosalind 342
Cascadia subduction zone 260
Caselles, Vicent 299
Casey, B.J. 326
Catalysts 31, 61, 141
Caterpillars 294
Caudle, Robert M. 93
Cave art 314
Cave burials 314
Cellular phones 404
Census 117
Ceramics 45

Ceratopsian dinosaurs . . . 180
Cercek, Bojan 253
cftr gene 59
Chaboyer, Brian 277
Chagas disease 29
Chain drive 102
Chalmers, Iain 398
Chan, Tony F. 300
Chandra X-ray Observatory 101, 122
Chang, G. Jeffrey 165
Changnon, David 142
Chapela, Ignacio H. 237
Chapin III, F. Stuart 230
Chapman, Robert S. 397
Chaudhari, Nirupa 222
Chemical bonds 221
Chemical reactions 349
Chemical weapons 294
Chemielectronics 31
Chemistry . . 13, 23, 36, 51, 61, 68, 93, 110, 195, 200, 214, . . 221, 229, 245, 262, 269, . . 292, 323, 333, 346, 356
Chen, Chien-Jen 214
Chen, Dongmin 206
Chen, Lieping 403
Chen, Yung-Fou 365
Cheney, Dorothy L. 166
Cheng, Edward 164
Cherry, Michael L. 260
Chervin, Ronald D. 157
Chickens 120, 213
Child abuse 389
Child development . . 392, 408
Childbirth *See* Birth
Children 301, 325, 355
Chimpanzees 195, 227
China 7, 397
Chlamydia 164, 253
Chlordane 93
Chlorine 339
Chloroform 238
Cholera 205, 357
Chou, Hsu-Fang 100
Chou, Stephen Y. 390
Christen, Marie-Odile 254
Chuang, De-Maw 398
Chuang, Isaac 31
Chubukov, Andrey V. 174
Chung, Fan 217
Cidofovir 179
Cigarette smoking *See* Smoking
Cigarettes 38
Civin, Curt I. 390
Clapham, David 153
Climate . . . . . 197, 216, ... 238, 291, 342
Climate change 6, 15, 230
Cloning. . 47, 52, 163, 189, 356
Clostridium 72
Clouds 342
Clovis people 222
Coal 397
Cocaine 53
Coffee 141
Cognition . . . 67, 267, 333, 392
Cohen, Anne L. 285
Cohen, Barbara A. 148
Cohen, Ron 346
Cold 101
Cold fusion *See* Fusion, cold
Collapsar model 228
Collar, Nigel 168
Collins, Frank 324
Colonno, Richard J. 158
Colozza, Anthony 330
Colvin, Vicki 200
Colwell, Rita 86
Comet Hale-Bopp 184
Comet Halley 184
Comet Hyakutake 184
Comets 184, 285
Communication 282
Communication, chemical 133, 221, 340
Community identification algorithm 190
Complement proteins 85
Computer chips 83
Computer graphics . . . 56, 299
Computer image processing. 56
Computer networks 190
Computers 31, 190, 282
Computers, quantum 94
Condon, James J. 293
Congress, funding 20, 85
Conservation 67, 373
Contrails 291
Cooke, Paul S. 325
Cooking 277
Copeland, John R. 68
Copper oxides 173
Coppi, Paolo S. 363
Corals 285, 374
Corder, Roger 8
Cordle, Christopher 325
Corn 211, 237
Corrosion 99, 228
Cosmic dust 280
Cosmic microwave background 5
Cosmic rays 187, 260
Cosmology . . . . 196, 206, 244, ... 301, 362
Cotinine 38
Cotton 15
Cowburn, Russell P. 373
Cowpox 179
Cows 366
Coxsackievirus 173
Crabtree, Robert H. 23
Craig, Arthur 102
Craters 31, 378
Crayton, Michele A. 276
Creel, Scott 268
Crick, Francis 24
Crocodiles 310
Crohn's disease 53, 365
Crum, Lawrence A. 147
Crute, James J. 227
Cruz, Anthony P. 214
Crying 276
Cryogenics 4
Cryptography 31
Crystals 142, 397
Cummings, David E. . 107, 366
Cunningham, Cliff 134
Curcumin 317
Cyanobacteria 180, 275
Cynn, Hyunchae 211
Cystic fibrosis 59, 381
Cytoskeletion 366

D

Dale, James B. 198
Daley, George 163
Dalton, Pamela 110
Daly, John 229
Dark energy 333
Dark matter 5, 21, 244
Datta, Anubhav 332
Daughton, Christian G. 182
Davidson, James 169
Davis, Barbara J. 149
Davis, John B. 294
Dawson, Geraldine 408
Daxenberger, Andreas 11
Day, Arjun 196
Day, Brian J. 59
Day, Julia J. 125
Day, Thomas 150
De Groot, Anne S. 318
de la Guardia, Andres 333
Dean, Heather 408
Decher, Gero 229
Decisionmaking 155
Decker, Robert B. 382
Deegan, Robert D. 77
Deeks, Steven 361
Deering, Faith 90
DeFanti, Thomas A. 344
Defensins 132
Defibrillators 271
Dehydroepiandrosterone 334
Deibert, Ronald J. 284
Delsemme, Armand H. . . . 184
Dementia 67
Deming, Timothy 323
Dengue fever 164
Density 262
Department of Agriculture 85, 20
Department of Energy. . 20, 85
Depression . . . . . 102, 276, ... 302, 318
Deretic, Vojo 60
Deuterium 147, 184, 356
Developmental biology . . . 372
Dhabhar, Firdaus S. 182
DHEA *See* Dehydroepiandrosterone
Diabetes . . . . 61, 77, 308, 339, ... 387, 408
Diamond, Jared 329
Diamonds 211
Diatoms 51
Dieffenbach, Carl W. 158
Diet 173, 387
Diethylstilbestrol 10
Diets, very-low-calorie . . . 291
Dietz, Harry C. 36
Differential equations 299
Dimensions, universe 187
Dimopoulos, Savas 187
Ding, Yuan-Chun 40
Dinniss, James 88
Dinoflagellates 61
Dinosaurs 125, 180
Distributed computing . . . 190
Ditzel, Henrik 313
Doherty, Ruth 15
Dolan, James F. 31
Domack, Eugene W. 197
Donhower, Lawrence A. . . . 47
Donnelly, T. William 262
Doolittle, W. Ford 275
Dopamine 53, 293
Doping 206
Dosch, H. Michael 4, 339
Doswell III, Charles A. 296
Dragert, Herb. 260
Drake, Jeremy J. 246
Drake, Michael J. 185
Droser, Mary L. 373
Drosophila 395
Drucker, Daniel J. 387
Drug abuse 53
Drug delivery 381
Drug interactions 8
Drug resistance 259
Drugs 181, 388
Drugs, psychoactive . . 83, 350
Dumitru, Razvan 366
Dunne, Michael 253
Dunning, Gilmore J. 309
Dust 15
Dvali, Georgi 187
Dwek, Raymond 233
Dynes, Robert C. 292

E

Eagle nebula 171
Earth core 22
Earth crust 184
Earth magnetosphere 308
Earth mantle 205
Earthquakes . . . . . 31, 75, ... 286, 260
Easton, Douglas F. 259
Ebola virus 216
Eckart, Andreas 122
Ecker, David 25
Eclampsia 398
Economics 104
Ecosystems 230
Eddy, Sean 24
Edgar, John A. 317
Edgett, Kenneth C. 43
Education 237
Edwards, Jonathan 312
Edwards, Lucy E. 382
Efstathiou, George 333
Eggleton, Paul 204
Eggs 213
Eichler, Evan E. 228
Eisenberg, Mark J. . . . 164, 253
Eisner, Thomas 229, 294
El Niño 78, 142
El-Gabalawy, Hani 313
Elderly 37
Electrochemistry 31, 87
Electromagnetism 94
Electron particle beams 262
Electronic displays 349
Electronic mail 282
Electronics 83, 349
Electrons 126
Electrostatics 87, 126
Elephants 133
Ellis, Beth 403
Elmes, Graham 340
Embryos 94, 390
Emery, David 121
Emini, Emilio 158
Emmett, Pauline M. 309
Emotions . . . . . 131, ... 276, 389
Enantiomers 93, 388
Encephalitis 318
Endangered species 168, 141
Endocrine disruptors. *See* Hormones, environmental
Endothelin 8
Energy efficiency 334
Engdahl, Anders 110
Engh, Anne 268
Engineering 330
Englar, Robert J. 331
Enomoto, Ryoji 260
Ensminger, Jean 106
Entomopter 330
Environment 200, 346
Environmental Protection Agency 20, 85
Epidemiology 216
Epstein-Barr virus 4
Errington, Jeffery 366
Erwin, Nathan 90
Escherichia coli 5
Essig, Marco 139
Estrogen 10, 323
Estrogens, environmental. *See* Hormones, environmental
Etches, Robert J. 213
Ethier, Stephen P. 68
Eukaryotes 24
Evaporation 78
Evolution. . 181, 198, 328, 350, ... 373, 394
Evolution, human 166
Evrad, August E. 196
Explosives 36
Extinctions . . . . . 69, 168, 190, ... 222, 373, 397, 403
Extreme Ultraviolet Explorer Satellite 110

F

Faces 307, 408
Facial expressions 389
Fahey, Jed W. 341
Faience 45
Families 253
Far Ultraviolet Spectroscopic Explorer 21, 110
Farhat, Tarek R. 228
Fat, dietary 206
Fattom, Ali I. 99
Fatty acids, omega-3 53
Fatty acids, polyunsaturated. 53
Fauchet, Philippe 36
Fay, Robert E. 118
Feathers 120
Feigenson, Lisa 392
Feinberg, Mark 360
Feldman, William C. 355
Feng, Jonathan L. 187
Ferbeyre, Gerardo 47
Ferguson, Willem 27
Ferromagnetism 173
Fersht, Alan R. 134
Fiedel, Stuart J. 222
Fields, Michael J. 11
Fife, Kenneth F. 29
Filippelli, Gabriel M. 6
Filters 120, 245
Finkelstein, Richard A. . . . 358
Finlay, Barbara L. 166
Finn, M.G. 68
Firbrin 221
Fires 397
Firestein, Gary 313
Fischer, Mattias 115
Fischer-Lindhal, Kirsten . . . 357
Fish 148, 205, 213, 234
Fish oils 53
Fish, Durland 220
Fission 189
Fitzpatrick, John 397
Flake, Gary W. 190
Fleming, James G. 334
Flight 330
Flowers 174, 238
Fluid flow 299
Fluid mechanics 133
Fluorine 269
Fluoroquinolones 29
Fluoxetine 318
FMS-like tyrosine kinase. . 371
Folate 8, 253
Foley, Henry 245
Folic acid 8
Folt, Carol 205
Food chain 205
Foran, James 371
Ford, Holland 163
Forest fires 75
Forests, air pollution and . 346
Forsberg, Åke 261
Forsberg, Rene 222
Forster, Catherine A. 181
Forster, Nick 56
Fortified foods 388
Fossils . . . . . 84, 125, 142, 179, ... 180, 275, 403
Foster, John 398
Fox, Nathan A. 389
Fractals 75
Fractures 77
Frank, Kenneth D. 248
Frankel, Arthur E. 371
Frazier, Ken 276
Free, Rolien H. 73
Freed, Rita 45
Freedman, Wendy 277
Freidel, David 316
Freumueller, Jeff 15

Friedman, Jeffrey M. 387
Friedman, Mark 108
Friend, Stephen H. 68
Frogs 229
Frost, Gary 309
Frydman, Aviad 292
Fuchs, Charles S. 253
Fujita scale 296
Fujita, Ted 296
Fulgurites 87
Fumigation 381
Fuselier, Stephen 308
Fusion 147, 189
Fusion, cold 147

G

Gaden, Marc 213
Gadolinium 4
Gagen, Michael J. 25
Gagneux, Pascal 228
Galactic corona 21
Galápagos Islands 357
Galaxies 5
Galaxies, clusters 196
Galaxies, collisions . . 278, 293
Galaxies, distant . . . . . 244, ... 277, 278
Galaxies, evolution of 101
Galaxies, formation . . 244, 362
Galaxies, motion of 244
Galaxies, structure of 101
Galaxy formation 21
Galaxy surveys 62
Galaxy, most distant 196
Galileo spacecraft 125
Gallagher, William J. 373
Gallium arsenide 309
Gamboa, George 198, 405
Gamma-ray bursts . . . 37, 228
Ganguli, Mary 173
Ganz, Peter 8
Gao, Yihua 110
Garcia, Mariano 161
Garlic 8
Garvin, James B. 43
Garza, Sergio 315
Gastreaux, Sidney A. 249
Gates, Bruce C. 141
Gaub, Hermann E. 292
Gautam, Subhash 318
Gazzani, Gabriella 141
Geller, Barbara 355
Gels 180, 323
Gene mapping 197
Gene mutations . . 20, 40, 149, ... 259, 254
Genes . . . . . 24, 68, 116, ... 149, 227, 250, 404
Genesis spacecraft 8
Genetic engineering 213, 237
Genetically modified organisms. *See* Transgenic plants
Genistein 325
Genomes . . 211, 275, 317, 333
Geological record 378
George, Brian 120
Geppetti, Peirangelo 294
Gergely, Gyorgy 125
Geron, Chris 346
Gershuny, Jonathan 283
Ghigo, Ezio 107
Ghrelin 107, 366
Gibbs, Roger 205
Gibson, Roger 379
Gigerenzer, Gerd 156
Gil-White, Francisco 105
Gilberson, Dudley F. 47
Gilbert, W. Henry 179
Gilmore, Gerry 124
Gimzewski, James 293
Gingerich, Philip D. . . 166, 244
Glacial cycle 15
Glaser, Jack 284
Glassman, David M. 315
Glazebrook, Karl 62
Gleevec 371
Glendenning, Norman K. . . 246
Global Positioning System 15, 31
Glucose 308
Glutamate 115
Glutathione 59
Glycoproteins 29, 232
Gmachl, Claire 115
Goebel, Ted 222
Goff, H. Douglas 142
Goff, Stephen A. 211
Gold, Paul E. 333
Goldstein, Allen 347
Gomez, Yolanda 8
Gonzales, Gustavo F. 334
Goodwin, Thomas 133
Gorbach, Sherwood L. 72
Goren-Inbar, Naama 117
Goriely, Alain 341
Gornik, Erich 115
Gotlib, Ian H. 277
Gottesman, Susan 25
Gotzsche, Peter C. 265
Graham, Ronald L. 216
Graham, Russell 222
Grain 308
Grainger, David 13
Granular flow 87
Grassle, Fred 382
Gratzer, Walter 237
Gravitational lens 196
Gravitational waves 37
Gray Jr., L. Earl 11
Gray, Jeffrey A. 189
Gray, Russell 328
Great Lakes 234
Green, Allan 140
Greene, George C. 387
Greenwald, Peter 264
Greer, Joy M. 20
Grief 131
Grieve, Richard 379
Griffin, Patricia 46
Grimaldi, David A. 202
Gross, Franz 262
Grossman, Zvi 361
Gschneidner Jr., Karl A. 4
Gu, Jian 390
Gu, Zhenning 269
Gudiksen, Mark S. 83
Guenther, Alex 347
Guevara, James 350
Guggino, William B. 60
Guillette Jr., Louis J. 10
Gunnar, Megan R. 389
Gwynn-Jones, Dylan 150

H

Haber, Daniel A. 259, 323
Hack, Maureen 109
Haddad, Ella 100
Haemophilus influenzae . . . 29
Hafler, David A. 4
Hagadorn, James W. 84
Hair 250
Halekas, Jasper 379
Hallucinations 37
Halsall, Crispin J. 94
Hamilton, Catrina 388
Hammond, Kenneth R. . . . 155
Hamsters 182
Hanauer, Stephen B. 366
Hansen, Barbara C. 77
Hansma, Paul 292
Hardie, Roger 197
Hardness 211
Hargrove, Mark S. 230
Harpending, Henry 40
Hartmann, Lynn C. 323
Hartmann, William K. 148
Hartzell, Patricia L. 180
Harvey, Alex J. 213
Harwood, Adrian J. 398
Hawking, Stephen 152
Hay, Simon 218
Hayden Planetarium 344
Hayes, Tyrone B. 243
Head, James 43
Heart 293
Heart disease . . . . 7, 8, 61, 67, ... 77, , 100, 115, 164, . . . 189, 244, 253, 271, 308
Heart transplants 94
Heat-shock proteins 394
Heavens, Alan F. 5
Hecker, Chris 56
Heckman, Timothy M. 244
Heinz, Dion L. 22
Helfand, David J. 124, 246
Helicobacter pylori 340
Helicopters 330
Helou, George 293
Hemmes, Richard B. 381
Hemoglobin 230
Hempelmann, Rolf 61
Henrich, Joseph 104
Henry, Todd J. 77
Henshilwood, Christopher S. 40
Heparin 232
Hepatitis 232
Herbal medicines . . . 254, 333
Herbers, Joan 340
Herbst, Eric 356
Herbst, William 388
Herold, Kevan C. 339
Herpes 29, 84, 227
Hester, J. Jeff 171
Hetherington, Seth 158
Hexadecyloxypropyl-cidofovir 179
Heyde, Chris 381
Hibbard, John E. 278
Hickey, Leo J. 403
Hill, Kim 105
Hill, Robert 230
Hillenbrand, Lynne 172
Hillier, Sharon L. 72
Hillman, Jeffrey D. 74
Hilton-Taylor, Craig 168
Hinkley, Todd K. 15
Hinnebusch, B. Joseph . . . 261
Hirose, Kei 205
HIV 8, 29, 132, 360
Hogan, Craig J. 333
Hogsette, Jerome A. 126
Hoiczyk, Egbert 180
Holbrook, Stephen R. 24
Holden, Clare J. 328
Holekamp, Kay 267
Holers, V. Michael 85
Holick, Michael F. 388
Hollenberg, Norman 142
Holman, Matthew J. 281
Holography 309
Holtz Jr., Thomas R. 161
Homeobox genes 20
Hominids 117, 179
Homo sapiens 149, 261
Homocysteine 100, 141
Honey 317
Hooper, David C. 5
Hopkins, Walter J. 5
Hormones 107, 110, 334
Hormones, environmental 10, 181
Hostetler, Karl Y. 179
Hu, Esther M. 196
Hubble Deep Field 278
Hubble Space Telescope . . . . . 163, 132, 171, ... 277, 278, 358
Huber, Armin 197
Hubisz, John L. 237
Hubler, Graham K. 87
Hudson, Valerie M. 60
Huettel, Scott A. 285
Huggins, John W. 180
Hull, Richard 73
Humans, evolution . . . 40, 117, ... 149, 179, 227
Humphreys, Glyn W. 374
Hunger 107
Hunter-gatherers 104
Hurley, Jarrod R. 345
Hutchinson, John R. 161
Huttenlocher, Janellen . . . 392
Hybridization 374
Hydrogel 323
Hydrothermal vents 382
Hyenas 267
Hyperactivity 157, 350
Hypertension 302
Hypothermia 115

I

Ice 142, 184, 195, 286
Ice cream 142
Ice shelves 197
Idziak, Stefan 206
Iguanas 357
Image processing 299
Imitation 125
Immigration 117
Immunity . . . . . 21, 84, 85, 99, ... 116, 182, 200, 237, ... 325, 339, 360, 403
Impacts 147, 378
Implants 13
Indium 206
Indium gallium arsenide 115
Infants . . . . 109, 125, 307, 325, ... 349, 392
Infections 216
Inflammation 244, 312
Inflammatory bowel disease 53
Infliximab 365
Influenza 173
Infrared astronomy . . . . . 122, ... 171, 358
Infrared radiation . . . 110, 334
Ingersoll, Andrew P. 85
Inositol 398
Insect repellants 181
Insecticides 126
Insects . . . . . 69, 90, 271, ... 294, 324, 330, ... 340, 350
Insulation 120
Insulin 308, 339, 408
Insulin resistance 308
Intel Science Talent Search 70, 165
Interferometry 222
International Science and Engineering Fair 326
Internet 190, 237, 282
Interstellar space . . . 195, 356
Intestines 357
Introns 24
Ion channels 101, 152
Ionosphere 308
Ions 269, 404
Iridium 141
Iron 366
Irwin, Lisa K. 12
Islets. *See* Pancreatic islets
Isoflavones 325
Isotopes 184

J

Jablonski, David 373
Jackson, Chris W. 126
Jacobs, Janis E. 301
Jacobs-Lorena, Marcelo . . 324
Jaffe, Harold 158
Jakobsen, Kjetill S. 39
James, Anthony 324
Jameson, Bruce 137
Janson, Siegfried 398
Japan 7
Jarrett, Thomas H. 293
Jaywardhana, Ray 62
Jeanloz, Raymond 211
Jegou, Bernard 10
Jellyfish 84
Jenkins, Cheryl 366
Jenkins, David J.A. 309
Jesson, Linley K. 372
Jeste, Dilip V. 37
Johnson, David 150
Johnson, John E. 68
Johnson, Kirk R. 403
Joiner Jr., Thomas E. 277
Jones, Adam G. 40
Jones, Thomas C. 22
Jordan, Fiona 329
Jordan, Michael 190
Julius, David 101, 294
Jupiter 85, 125
Jupiter, Great Red Spot 85
Jupiterlike planets 371

K

Kaas, Jon H. 405
Kagan, Jerome 307, 392
Kaiser, Dale 180
Kamps, Kevin 39
Kane, John M. 84
Kangawa. Kenji 107
Kaplinsky, Nicholas 237
Karagas, Margaret R. 126
Karasov, William H. 243
Karatzas, Costas N. 38
Karp, Daniel D. 254
Katz, James E. 282
Katz, Samuel L. 54
Kay, Richard F. 244
Kays, Roland 253
Keck Telescope 196
Keefer, Larry 14
Keimel, Chris 390
Keimer, Bernhard 173
Keller, Laurent 245
Kellogg, Wendy 283
Kelly, James J. 262
Kelly, Louise M. 371
Kemnitz, Joseph W. 292
Kendall, Kate 251
Kenkmann, Thomas 378
Kennedy Space Center 15
Kern, Earl R. 180
Kessler, Ronald C. 102
Khalturin, Vitaly I. 286
Kidneys 99, 293, 356
Kieffer, Timothy J. 387
Kim, E. Edmund 139
Kin recognition 245, 349
Kirch, Patrick V. 329
Kistler, Doris J. 389
Klass, Klaus-Dieter 271
Klassen, Preston 237
Klaveness, Dag 39
Klepeis, John E. 212
Kleymann, Gerald 227
Kloner, Robert A. 115
Knecht, Stefan 374
Knight, Christopher T.G. . . . 51

Knight, David P. 38
Knowlton, Nancy 100, 374
Kobrick, Michael 126
Koerner, David W. 280
Kohler, Susan J. 248
Koizumi, Kei 20
Kolpin, Dana W. 182
Korotev, Randy L. 148
Kortenkamp, Andreas 182
Kovacs, Gregory T.A. 52
Kraut, Robert 282
Krehl, Peter 341
Kress, W. John 372
Kring, Ann M. 277
Kring, David A. 148
Kripke, Daniel S. 173
Kroo, Ilan M. 331
Krypton 184, 221
Kuiper belt 285
Kurth, William 174

L

La Point, Thomas W. 243
Lactobacillus 72
Lahav, Ofer 5
Lake Vostok 253
Lakes 205
Laland, Kevin N. 166
Lam, Stephen 254
Lambert, Joseph 269
Lampreys 213
Lan, Qing 397
Lance, Valentine 310
Landa, Andrew 366
Landay, Alan 158
Landrieu, Mary 163
Landsberg, Greg 188
Langer, Robert 262
Language 325, 328, 374
Languages, Austronesian . . 328
Languages, Indo-European 328
Lanser, Marc 405
Lanza, Robert 163, 356
Lapointe, Line 238
Large Hadron Collider 187
Larson, Richard B. 363
Lasers . . 94, 115, 309, 350, 390
Lasers, atom 350
Lasers, broadband 115
Lasers, medical 309
Lasers, quantum-cascade 115
Latimer, Jennifer C. 6
Lattimer, James M. 246
Laughlin, Catherine 180
Laughlin, Gregory P. 372
Lawler, Dennis F. 291
Lead 15
Leanhardt, Aaron E. 350
Learning 341
Leaves 148
Leckman, James F. 20
Lee, Rosalind C. 25
Lehnhardt, John 133
Leighton, Tom 216
Lendlein, Andreas 262
Leonard, Steve 170
Leprosy 365
Leptin 107, 387
Lerner, Barron 264
Leszczynski, Dariusz 404
Levine, Benjamin 376
Levine, Susan C. 392
Levy, Stuart B. 29, 259
Lewin, Danny 216
Lewis, David A. 84
Li, Jian-Long 206
Li, Weiming 213
Lieber, Charles M. 83
Lieberman, Jeffrey A. 84
Light 248
Light pollution 248
Light, slowed 94
Lighting 334
Lightning 15, 87
Lin, Lijun 269
Lin, Shawn Y. 334
Lindquist, Susan 394
Lions 253
Liou, Kuo-Nan 342
Lipsitch, Marc 259
Liquid crystals 349
Lis, Darek 356
Lisziewcz, Julianna 158
Lithium 398
Lithocholic acid 309
Liu, Michael 62
Liver disease 317
Livestock 10, 181
Livio, Mario 172
Lloyd, James E. 249
Loeb, Abraham 362
Longevity 36
Loscertales, Ignacio G. 133
Lovejoy, C. Owen 179
Low birth weight. *See* Birth weight, low
Lowe, Scott W. 47
Lubell, Michael S. 20
Lubin, Yael 22
Luetzow, Manfred 278
Lungs 59
Lunine, Jonathan I. . 42, 77, 186
Lupus 85
Luzzi, David E. 93
Lyman-alpha forest 196
Lynx 67, 250

M

MacEachern, Scott 329
MacIsaac, Hugh J. 235
MacKinnon, Roderick 152
Magnani, Mauro 381
Magnesium oxide 141
Magnetic electronics 373
Magnetic fields 308
Magnetic refrigerator 4
Magnetic resonance imaging 139, 285, 374
Magnetic storage 373
Magnetism 173
Magnetocaloric effect 4
Magnetosphere. *See* Earth magnetosphere
Maiz-Apellaniz, Jesus 69
Makovicky, Peter J. 180
Malamud, Bruce D. 75
Malin, Michael C. 43
Mallal, Simon 158
Mallouk, Thomas E. 83
Mammals 165, 222, 230
Mammograms 264
Mangelsdorf, David J. 310
Manic depression. *See* Bipolar disorder
Mantle. *See* Earth mantle
Manwaring, Mike 61
Mao, Ho-kwang 22
Marangoni, Alejandro G. . . 206
Marburger, John H. 20, 86
Marcy, Geoffrey W. 371
Margon, Bruce 277
Margot, Jean-Luc 317
Margrave, John 269
Margulis, Lynn 202
Maria, Anton H. 76
Marijnissen, Jan C.M. 133
Marlowe, Frank 105
Mars. . . 42, 149, 205, 330, 355
Mars Global Surveyor . . . . 42, ... 157, 184
Mars Odyssey spacecraft 42, 149, 205, 355
Mars, life 42
Mars, water 42, 149, 157
Marshall, John 88
Martin, George M. 36
Martin, Joel W. 134
Martin, Robert D. 243
Mass spectrometry 133
Mass, Jennifer 46
Mastotermes 202
Mateo, Jill 198
Materials science . . 13, 36, 38, ... 45, 61, 68, 93, 120, . . 200, 211, 214, 245, 262, ... 269, 292, 323, 333
Mathematics 299
Mathematics, sex differences 301
Mathijssen, Ron A.H.J. 254
Mathis, Diane 312
Matrix metaloproteinases 139
Matsumoto, Kunio 254
Mattick, John 25
May, Robert 52
Maya civilization 314
Mayberg, Helen 318
Mazanti, Gianfranco 206
McCabe, Kevin 106
McCandliss, Bruce D. 326
McCaughrean, Mark J. . . . 171
McClain, Craig J. 173
McClung, David M. 136
McCurry, Liesel 91
McDaniel, Mark A. 333
McDiarmid, Roy 26
McDowell. Judith E. 357
McEwen, Bruce 182
McFarland, Eric W. 31
McGhee, Jerry 54
McGrew, William 196
McKelvey, Kevin 251
McKenna, Katelyn Y.A. . . . 283
McKenzie, Joanna 219
McLachlan, John A. 10
McLellan, Bruce 250
McMillen, Tyler 341
McNamara, Todd M. 15
Mearns, Linda O. 15
Meck, Janice V. 376
Medicine 13
Mednick, Sara C. 341
Meierhenrich, Uwe 195
Mekalanos, John J. 206
Mellen, Jill 133
Meltzoff, Andrew N. 125
Melville, Wilma 276
Membranes 245, 388
Memory 285, 333, 341
Mendelson, Joe 26
Mental illness 37, 102
Menthol 101
Mercader, Julio 195
Mercury 365
Mercury (element) . . . 148, 205
Merkel, Tim 245
Merril, Carl R. 23
Merzbacher, Celia I. 89
Metabolism 149, 387
Metals 23, 31
Meteorites . . 147, 184, 378, 382
Meteorology 87
Methane 366
Methylmercury 148, 205
Metz, Matthew 237
Meyer, Jerry R. 116
Meyerhoff, Mark 14
Mice 333
Michelson, Robert C. 331
Micro aerial vehicles 330
Microchips 390
Microelectronics . . 52, 83, 93, . . . 102, 115, 206, 373, 390
Microfossils 382
Micromachines 52, 102
Miedema, Frank 361
Migration 67
Mihailescu, Preda 324
Milk 206
Milky Way 21, 122
Miller, Andrew 340
Miller, Anita 356
Miller, Dan 136
Miller, Marissa 23
Miller, Richard 36
Mills, L. Scott 67
Mills, Nathan 28
Mills, Scott 252
Minnis, Patrick 291
Miranda, Luis F. 8
Misra, Manoranjan 121
Mistletoe 6
Mitchell, David 388
Mitchell, Donald 308
Mix, Kelly S. 392
Möbius strip 397
Mohr, Johan J. 222
Mold, Carolyn 308
Mole rats 349
Molecular beams 206
Molecular clouds 356
Molecular electronics 229
Molecular evolution 230
Molecular motors 292
Molloy, Daniel P. 339
Monkeys 53
Moog, Ute 69
Moore, Marianne V. 248
Morbidelli, Alessandro . . . 185
Morellato, L. Patricia C. 54
Morgan, David 109
Morgan, Randy 90
Morrison, Glenn C. 271
Morse, Daniel 52
Morse, Larry 168
Mosquitoes 324
Moss, Arthur J. 271
Moss, William C. 147
Motors 292
Mound, Laurence 70
Mucin 180
Muhlestein, Joseph B. 164
Mulder, Monique B. 329
Multiple sclerosis 4
Murphy, Eileen M. 93
Murphy, Robin 276
Murray, Richard W. 6
Mushotzky, Richard 101
Musselwhite, Donald S. 43
Musser, James M. 198
Musth 133
Mutation 29, 394
Myelin 4, 365
Myhrvold, Nathan P. 341
Myles, Timothy G. 203
Myoglobin 230
Myxobacteria 180

N

Nader, Michael A. 53
Nadler, Janice 283
Nagaya, Noritoshi 108
Nanofibers 133
Nanotechnology . . . 52, 68, 83, . . . 93, 133, 200, 214, 229, ... 269, 292, 333, 408
Nanotubes . . . . . 83, 93, 200, ... 214, 269, 333
Nanowires 133
Narrow, William 102
NASA 20, 163, 308, 85
National Aeronautics and Space Administration. *See* NASA
National Center for Supercomputing Applications 344
National Institutes of Health 20, 85
National Oceanic and Atmospheric Administration Weather Radio 78
National Science Foundation 20, 85
Natural selection 350
Nazaroff, William W. 271
Neandertals 149, 261
Nebulas, planetary 184
Neckers, Leonard 395
Nelan, Thomas C. 212
Nelander, Bengt 110
Nemiroff, Robert J. 37
Nerves 221, 293, 310, 405
Neuroblastoma 301
Neutrinos 187, 301
Neutron stars 246
Neutrons 262
Neutrophils 237
Newman, Roger C. 99
Nickle, David A. 203
NICMOS 132, 358
Nicotine 38, 302
Nie, Norman H. 282
Nieto, Natalia 53
Nieuwenhuijsen, Mark J. . . 238
Nightingale, Barbara 248
Nitrogen 110, 234
Nitrosamines 38
NMR 31
Noble gases 221
Noda, Massatoshi 206
Nolte, David D. 309
Nonacs, Peter 405
Nonlinear dynamics 77
Norepinephrine 293
Norman, Michael L. 362
Norris, Jay P. 37
Novelty-seeking behavior . . 40
Nowak, Andrew 324
Nuclear fusion. *See also* Fusion 147
Nuclear magnetic resonance 31
Nuclear waste 39
Nuclear weapons . . . 189, 286
Nutrition. *See* Diet
Nuts 117
Nyström, Lennarth 266

O

O'Brien, James F. 57
O'Dowd, Colin 347
O'Neill, Charles R. 340
Oberdorster, Eva 12
Obesity . . . 107, 173, 366, 387
Observatories 187
Obsessive-compulsive disorder 20
Ocean chemistry 6
Offitt, Kenneth 323
Oil 365
Oil pollution, ocean 365
Oil spills 357
Okal, Emile A. 286
Oldach, David W. 39
Olsen, Ole 265
Onsager, Terry 308
Optical coherence imaging 309
Optical tweezers 350
Optics 94, 334
Optoelectronics 61
Organochlorines 93
Orgogozo, Jean-Marc 68
Orientation 372
Orkin, Otto 91
Orthostatic hypotension 293, 376

Orthostatic intolerance . . . 376
Osmium . . . 184, 211
Osofsky, Michael S. . . . 292
Oster, George F. . . . 180
Ostling, Svante . . . 37
Ou, Lo C. . . . 334
Ovaries . . . 323
Owen, Tobias C. . . . 185
Oxidation . . . 23, 228
Ozernoy, Leonid M. . . . 185
Ozone . . . 234

P

p53 . . . 47, 134
Pääbo, Svante . . . 227
Pagel, Mark . . . 328
Paige, D.A. . . . 42
Pain . . . 294
Paleontology . . . 190, 373
Palladium . . . 23
Palumbi, Stephen R. . . . 374
Panagia, Nino . . . 363
Pancreatic islets . . . 339
Paper . . . 120
Parasites . . . 6, 340
Parenting . . . 22, 349
Parker, Patricia G. . . . 22
Parkinson's disease . . . 293
Parkinson, Christopher D. . 380
Parthogenesis . . . 94
Particle physics . . . 187, 246, 262, 301
Pascalis, Olivier . . . 307
Passel, Jeffrey S. . . . 118
Patapoutian, Ardem . . . 101
Patino, Sandra . . . 109
Patterson, Bruce . . . 253, 253
Paul, William . . . 361
Pavlath, Attila . . . 121
Pdodolsky, Richard . . . 249
Pease, R. Fabian . . . 390
Penner, Reginald M. . . . 388
Penninger, Josef M. . . . 93
Pepys, Mark B. . . . 307
Perception . . . 155, 189, 307
Pereira, Mark A. . . . 309
Perfluorochemicals . . . 318
Permalloy . . . 373
Perry, Robert . . . 261
Persistent organic pollutants . . . 93
Pesticides . . . 181
Petel, Shankari . . . 315
Peterson, A. Townsend . . . 230
Petit, Odile . . . 307
Petroleum . . . 365
Pets . . . 349
Pfeiffer, Robert F. . . . 293
Pfeiffer, Thekla . . . 276
Pfennig, David W. . . . 27, 198
Pfiesteria . . . 39
Pharma, Solvay . . . 254
Pheromones . . . 213
Phillips, David P. . . . 7
Photonic crystals . . . 61, 334
Photonics . . . 83
Photons . . . 94
Photopolymerization . . . 349
Photovoltaic devices . . . 334
Physics . . . 56, 93, 292
Phytoplankton . . . 61
Pickerill, Ronald K. . . . 84
Pickhardt, Paul C. . . . 205
Pierce, Tom . . . 346
Pimm, Stuart L. . . . 373
Pion . . . 246
Piscitelli, Stephen C. . . . 8
Pisetsky, David . . . 313
Pizo, Marco A. . . . 54
Placebos . . . 318
Plague . . . 261
Planetariums . . . 344
Planetary nebula . . . 8
Planetary science . . . 330
Planetary systems . . . 388
Planetesimals . . . 184
Planets, extrasolar . . . 62, 280, 371, 388
Planets, formation . . . 184
Planets, missions to . . . 330
Plants . . . 6, 54, 69, 109, 118, 150, 168, 381, 406
Plasmas . . . 87, 398
Plastics . . . 181
Plattner, Stuart . . . 106
Pleistocene extinctions . . . 69
Pletnev, Alexander G. . . . 164
Pliocene epoch . . . 69
Pochan, Darrin . . . 324
Podoloff, Donald A. . . . 139
Polarization . . . 262
Pollak, Seth D. . . . 389
Pollination . . . 69, 109, 174, 372
Polyelectrolytes . . . 228
Polymers . . . 262, 323, 349
Polyphenols . . . 8
Pomerleau, Ovide F. . . . 38
Popovic, Jovan . . . 57
Population, genetics . . . 67
Porter, Warren P. . . . 243
PPARs . . . 61, 77
Praseodymium . . . 94
Prchal, Steve . . . 90
Predation . . . 294, 350
Preece, Alan . . . 404
Preeclampsia . . . 398
Pregnancy . . . 8, 302, 398
Premature infants. *See* Infants; Birth
PRIMA-1 . . . 134
Primack, Joel R. . . . 5
Primates . . . 166, 227, 243
Primates, fossils . . . 243
Prives, Carol . . . 134
Probiotics . . . 72
Proctor, Michael . . . 250
Propane . . . 141
Prostate gland . . . 51, 116
Proteases . . . 237
Proteases, inhibitors . . . 8
Proteins . . . 134, 142, 195, 230
Protons . . . 262
Proximity effect . . . 292
Prufer, Keith M. . . . 315
Pseudomonas . . . 59
Psychiatric disorders . . . 102, 212
Psychotherapy . . . 131
Pugh, Timothy W. . . . 316
Purvance, David T. . . . 76
Pyrrolizidine alkaloids . . . 317

Q

Quantum computers . . . 31
Quantum mechanics . . . 31, 94, 115, 187, 350
Quantum spin . . . 94
Quantum wells . . . 115
Quarks . . . 246, 262
Quartz . . . 390
Quasars . . . 101
Queitsch, Christine . . . 395
Queller, David . . . 245
Quigg, Richard J. . . . 85
Quinn, Paul C. . . . 307
Quist, David . . . 237

R

Race . . . 388
Rader, Daniel J. . . . 61
Radiation therapy . . . 68
Rain forests . . . 403
Rall, David P. . . . 10
Ramanath, Ganapathiraman . . . 214
Rambukkana, Anura . . . 365
Rasmussen, L.E.L. . . . 133
Rasmussen, Pamela . . . 169
Rassolov, Vitaly . . . 269
Ratner, Buddy P. . . . 13
Rats . . . 276, 381
Rauscher III, Frank J. . . . 254
Ravussin, Eric . . . 108
Raynes, Peter . . . 349
Read, Timothy D. . . . 317
Reader, Simon M. . . . 166
Reading . . . 325
Reaka-Kudla, Marjorie L. . . 100
Reaven, Gerald M. . . . 309
Rebbeck, Timothy R. . . . 323
Receptors, cell . . . 101
Recycling . . . 120
Reeves, James R. . . . 228
Reeves, Timothy G. . . . 211
Reid, David F. . . . 234
Reid, Gregor . . . 72
Reidinger, Lee L. . . . 147
Relativity theory . . . 187
Relethford, John H. . . . 150
Religious beliefs . . . 314
Relyea, Rick . . . 26
Renfrew, Colin . . . 328
Rengefors, Karin . . . 61
Retroviruses . . . 213
Reynolds III, Charles F. . . . 212
Reynolds, Hugh . . . 57
Rheumatic fever . . . 197
Rheumatoid arthritis. *See* Arthritis, rheumatoid
Rhodopsin . . . 196
Rhubarb galloyl-tannin . . . 206
Riccardelli, Carolyn . . . 45
Rice . . . 211
Richards, Graham . . . 190
Richer, Harvey . . . 277
Rickets . . . 388
Riddle, Heidi . . . 133
Rideout III, William M. . . . 163
Rift Valley fever . . . 216
Righter, Kevin . . . 184
Ringwald, Andreas . . . 188
Rist, Martin A. . . . 197
Rivers . . . 148
RNA . . . 24, 51, 181
Robbins, John B. . . . 100
Robert, Francois . . . 185
Roberts, Callum . . . 100
Robertson, David . . . 377
Robinson, Harriet L. . . . 318
Rockets . . . 398
Rockwell, Thomas K. . . . 31
Rodemeyer, Michael . . . 77
Rodents . . . 381
Roman, Francois . . . 29
Romer, Wolfgang . . . 139
Ronald, Pamela . . . 211
Rose, William I. . . . 15
Rosei, Federico . . . 229
Rosen, Neal . . . 395
Roser, Bruce, J. . . . 318
Ross, James P. . . . 310
Roth, George S. . . . 292
Roti Roti, Joseph L. . . . 404
Rottenberg, Jonathan . . . 277
Routhier, Marie-Claude . . . 238
Royer Jr., William . . . 230
Rozengurt, Enrique . . . 157
Rubber . . . 77
Ruck, Bruce . . . 365
Rust . . . 228
Rutherford, Suzanne . . . 394
Ruvkin, Gary . . . 24
Rwanda . . . 29
Ryan, Mary P. . . . 99
Rydell, Jens . . . 249

S

Safar, Peter J. . . . 115
Saffman, Philip G. . . . 387
Sailor, Michael J. . . . 36
Salmon, Michael . . . 248
Saltmarsh, Michael J. . . . 147
Saltonsall, Kristin . . . 118
Saltzman, W. Mark . . . 262
Samet, Jonathan M. . . . 397
Sammis, Charles G. . . . 76
Samuelson, Lars . . . 83
San Cayetano Fault . . . 31
Sanchez-Cespedes, Montserrat . . . 254
Sandin, Daniel . . . 344
Sandoval, Cristina . . . 350
Sangster, Todd A. . . . 395
Sapiro, Guillermo . . . 299
Sasisekharan, Ram . . . 232
Satellite altimetry . . . 31
Satellites . . . 52, 216, 308, 398
Satellites, hipparcos . . . 69
Saturn . . . 388
Saunders, Scott . . . 233
Saxon, Andrew . . . 381
Scambos, Ted A. . . . 197
Scanlon, Kelley S. . . . 388
Schachter, Harry . . . 232
Schaefer, Joseph T. . . 296, 297
Schaffer, Priscilla A. . . . 227
Schienman, John . . . 181
Schilling, Freimut H. . . . 301
Schistosomes . . . 216
Schistosomiasis . . . 216
Schizophrenia . . . 37, 83
Schlaggar, Bradley L. . . . 325
Schlenoff, Joseph B. . . . 228
Schmidt, Walter F. . . . 120
Schmitt, Harrison H. . . . 378
Schoenfisch, Mark . . . 14
Schron, Eleanor . . . 164
Schumer, Rina . . . 76
Schwann cells . . . 365
Schwartz, Michael K. . . . 67
Scowen, Paul . . . 171
Sediments . . . 6
Seeberger, Peter H. . . . 233
Seeds . . . 54
Segal, Anthony W. . . . 237
Seismometers . . . 286
Seizures . . . 398
Selenium . . . 173
Self-Trail, Jean M. . . . 382
Sembach, Kenneth R. . . . 21
Semenov, Andrei Yu . . . 262
Semiconductors . . . 83, 206, 408
Sen, Shevanti . . . 318
Senar, Juan Carlos . . . 109
Sensors . . . 310
Sereno, Paul C. . . . 142
Serotonin . . . 20
Seshadri, Sudha . . . 141
Seto, Edmund . . . 219
Sewage treatment . . . 181
Sex differences . . . 110, 301
Sexual behavior . . . 213, 253
Sexual selection . . . 267
Seyfarth, Robert M. . . . 166
Shape memory . . . 262
Shapely, Alice E. . . . 244
Shapira, Dan . . . 147
Shara, Michael M. . . . 345
Shen, Jianhong . . . 300
Sheth, Shirish S. . . . 398
Shimada, Shigeru . . . 23
Shipp, Margaret A. . . . 21
Shock waves . . . 341
Shocked quartz . . . 378
Shoda, Ryosuke . . . 54
Shor's algorithm . . . 31
Shor, Peter W. . . . 31
Showalter, Kenneth . . . 349
Showers . . . 238
Shuldiner, Alan R. . . . 36
Shull, Robert D. . . . 4
Sick-building syndrome . . 271
Siegel, Robert D. . . . 4
Siegler, Robert S. . . . 392
Siemiginowska, Aneta . . . 101
Silicon . . . 22, 36, 51, 390
Silk . . . 38
Silver, Rae . . . 182
Silverman, Robert H. . . . 51
Simon, Tony J. . . . 392
Simon-Miller, Amy A. . . . 85
Sinisalo, Juha . . . 164
Sisodia, Sangram S. . . . 117
Skakkabaek, Niels . . . 12
Skeletons . . . 179
Skoog, Ingmar . . . 37
Skrutskie, Michael F. . . . 123
Sleep . . . 157, 173, 212, 341
Sleep disorders . . . 212
Slime . . . 180
Sloan Digital Sky Survey . . . 5
Small, Donald . . . 371
Smallpox . . . 54, 179, 238
Smell . . . 110
Smith, Allan H. . . . 214
Smith, David L. . . . 259
Smith, Deborah . . . 22
Smith, Jeffrey J. . . . 60
Smith, Stuart . . . 203
Smoking . . . 302
Snider, Geregory L. . . . 373
Snoring . . . 157
Soares, Daphne . . . 310
Social behavior . . . 22
Social interactions . . . 53, 104, 282, 267, 349
Social judgment . . . 155
Sodium . . . 59
Soil . . . 150
Soil, polluted . . . 406
Solar flares . . . 382
Solar maximum . . . 382
Solar radiation . . . 301
Solar system, formation of . . . 184
Solar wind . . . 8, 308
Somerai, Stephen B. . . . 190
Sonic booms . . . 341
Sonoluminescence . . . 147
Soto, Ana M. . . . 10, 181
Soulen, Robert J. . . . 292
Soybeans . . . 325
Space . . . 163, 195, 356
Space shuttle . . . 126, 163
Space travel . . . 163
Spande, Thomas . . . 229
Spears, Russell . . . 283
Speciation . . . 350, 374
Species, introduced . . . 118, 213, 234, 294
Spectra . . . 248
Spectroscopy . . . 36
Speech . . . 307, 349
Spelke, Elizabeth S. . . . 392
Spergel, David N. . . 5, 124, 333
Spices . . . 317
Spiders . . . 22, 38, 91
Spiders, dragline silk . . . 38
Spielman, Andrew . . . 324
Spies, Robert . . . 357
Spiropulu, Maria . . . 188
Spitzer, Robert L. . . . 102
Spontak, Richard . . . 245
Squirrels . . . 198
Stainless steel . . . 99
Staley, James T. . . . 366
Standard model . . . 301
Stanley Jr., George D. . . . 84
Stanton, John J. . . . 284
Staphylococcus . . . 99

Starbirth 362
Starks, Philip 340
Stars. . . 77, 171, 277, 246, 344
Stars, ages of. 362
Staudt, Louis M. 21
Steidel, Charles C. 244
Steiner, Donald F. 387
Stem cells . . . 52, 94, 163, 390
Stephany, Rainer 12
Stereoimaging 344
Steroids 181, 334
Stetter, Karl O. 275
Stewart, Caro-Beth 181
Stewart, Julian. 376
Stickgold, Robert. 341
Stomach 357, 366
Stone Age 40
Stone Age tools. 117, 195
Stone, Andrea 315
Storz, Gisela 25
Strange matter 246
Streptococcus mutans . . . 141
Streptococcus 197
Stress. . . 7, 182, 212, 302, 394
Strickland, Sidney 221
String theories. 187
Stringer, Chris 179
Stroke 405
Strom, Stephen E. 172
Stubblefield, William 235
Studinger, Michael 253
Suarez, Andrew. 340
Subaru Telescope 196
Subury Neutrino Observatory 301
Sudan, Madhu 217
Sugar 232
Suh, John W. 52
Sulforaphane. 340
Sumner, William Q. 261
Sundlof, Stephen F. 12
Supercomputers 189
Superconductors. . . . 173, 292
Supernovas. . . . . 69, 228, 244, ... 246 260,
Surface chemistry. 31
Surface science. 229
Surface tension 174
Sutures 262
Swaisgood, Ron. 221
Sweat 366
Swimming 238
Swindle, Timothy D. 43
Symbiosis 6, 275, 285
Symbolic thinking 40
Synchrotrons. 206
Synesthesia. 189
Systematics. 271
Sze, Daniel Y. 285
Szykman, Micaela 268

T

T cells 312, 403
Taberlet, Pierre 250
Talalay, Paul. 341
Taleyarkan, Rusi P. 147
Talwar, Sanjiv. 276
Tamburri, Mario N. 235
Tanda, Satoshi. 397
Tanning salons 126
Tanzi, Rudolph E. 116
Taste, sense of 157, 221
Tatum, James 139
Tavare, Simon 243
Telescopes 163
Templeton, Alan R. 150
Termites 202
Ternes, Thomas A. 182
Terrell, John E. 329
Terry, Irene 70
Teske, Andreas 275
Testosterone 10, 334
Textbooks 237
Textiles 120
Teyton, Luc 339
Thallium. 173
Thermometers 365
Thomas, Robert J. 246
Thompson, Leigh. 283
Thompson, Rodger I. 172
Thompson, Judith R. 8
Thummel, Kenneth E. 310
Thymus 325
Thyroid 293
Tibbetts, Elizabeth A. 404
Tijdeman, Robert. 325
Tissue engineering . . 323, 356
Tobias Island 222
Toll-like receptors 84
Tolman, Edward C. 155
Tomlinson, Ian P.M. 149
Tooth decay. 141
Topology 126, 397
Tornadoes 296
Tornqvist, Margareta. 278
Toth, Nicholas 196
Tour, James 201
Toxins . . . . . 61, 229, ... 275, 339
Trace metals 15
Tracer, David 105
Transgenic plants . . . 237, 324
Transistors. 83
Transition metal 23
Travis, David J. 291
Trees 238, 346
Tremper, Bruce 137
Trenblone 10
Tresco, Patrick A. 61
Treuhaft, Robert N. 31
Triceratops 180
Trihalomethanes 238
Trinkaus, Erik 261
Tritium 147
Trypanosoma 29
Tsutsui, Neil. 245
Tuberculosis 216, 302
Tubulin. 366
Tucker, Compton J. 219
Tuckerman, Mark 404
Tumors 309
Tungsten 334
Turbulence 15
Turcotte, Donald L. 75
Turner, David J. 87
Turner, Jeffrey D. 38
Turukhin, Alexey V. 94
Tuschl, Thomas 25
Tweney, Ryan D. 156
Two Micron All Sky Survey 122
Two-degree field redshift survey 5, 62, 206
Tyndale, Rachel F. 38
Tyrannosaurus rex 161
Tyring, Stephen K. 85

U

U.S. Air Force. 15
U.S. Army Corps of Engineers 78
U.S. Geological Survey. 85
Ulcerative colitis 53
Ulcers 340
Ultraviolet astronomy 110
Ultraviolet radiation 150
Umami. 221
Uman, Martin A. 87
Universe 277
Universe, expansion 333
Urbina, Julio J. 29
Urinary tract infections. 5
Uterus 149

V

Vaccines . . . . . 5, 54, 99, 116, ... 164, 174, 179, 238, ... 302, 318, 403
Valacyclovir 29
van Ommeren, Ron J. 6
Vancomycin. 23
Vandiver, Pamela. 46
Vaughan, Michael 251
Veazey, Ronald 360
Vegetarianism 100
Vehrencamp, Sandra. 246
Veillet, Christian 285
Venemans, Bram P. 196
Venezia, Robert. 218
Verde, Licia 5
Verfaillie, Catherine M. . . . 390
Vernon, Ed. 102
Very Large Array radio telescope 122, 293
Viana, Felix 102
Vibrio cholerae 357
Vieweg, Johannes 116
Violence. 93, 261
Virmani, Renu 244
Virtual reality. 344
Virulence 173
Viruses. 29, 54, 68, 84
Vision. 189, 196, 245
Vitamin B12. 100
Vitamin B6. 100
Vitamin C. 333
Vitamin D. 309, 388
Vitamin E 333
Vitamin K. 234
Vitamins 253
Volavka, Jan. 84
Volcanoes 15
Volkmar, Fred R. 356
Volkow, Nora D. 53
Vollmer, Steven V. 374
Voyager 382

W

Wagner, Gunther P. 395
Wahhaj, Zahed. 280
Waite, Thomas. 235
Waits, Lisette. 67
Wakefield, Jerome C. 102
Walker, Faith 251
Wallace, Carden C. 374
Walter, Frederick M. 246
Wang, Denong. 233
Wang, Q. Daniel. 122
Wang, Rong-Fu 116
War 93
Ward, Timothy J. 388
Warshel, Arieh. 405
Wasps 404
Wassersug, Richard. 27
Waste treatment. . . . 181, 406
Wasting 107
Water. 184, 214
Water pollution. . . . . 10, 39, ... 181, 365,
Water treatment 181
Water, drinking 214
Water, heavy 147
Watson, James 24
Weakley, Alan 169
Weather forecasting 78
Webster, David L. 316
Weems, J. John 100
Wei, Jiang 7
Weight. *See* Body weight
Weiler, Edward J. 132
Weinberg, Martin 123
Weinberger, Alycia J. 280
Weissleder, Ralph 140
Weissman, Irving L. . . . 52, 163
Wellman, Barry 282
Wells 214
Weniger, Bruce 318
West Nile virus . 164, 216, 318
West, Jennifer 200
Wetlands 118
Wheat 142, 211
Whips 341
White, Angela M. 221
White, Tim 179
Whitesides, George M. . . . 390
Whitham, Thomas G. 6
Whitley, Richard 227
Whumpfs. 136
Wide-field camera. 278
Wiesner, Mark 200
Wikelski, Martin. 357
Wilczek, Frank. 187
Wiley, Christopher. 234
Wilkerson, John F. 301
Willett, Walter C. 278
Wilmut, Ian 47
Wilner, David J. 281
Wiman, Klas G. 134
Wind shear 387
Wine 8, 67
Wine, Jeffrey J. 60
Wings. 330
Wintour-Coghlan, E. Marelyn 302
Wise, Sharon 248
Wofsy, David 85
Wolgemuth, Charles W. . . . 180
Wolpoff, Milford. 179, 262
Wombats. 250
Women 110
Wong, Chi-Huey. 233
Wong, Gane Ka-Shu 211
Wood, Bernard 179
Woodpeckers 141, 397
Woods, William G. 301
Woosley, Stan 228
Wootten, Alwyn. 356
World Health Organization 54
World Wide Web 190
Worthy, Trevor H. 190
Wright, David. 235
Wu, David 58
Wynn, Karen 392
Wyse, Rosemary F.G. 123

X

X-ray astronomy 101, 122
X-ray crystallography 152
X-ray diffraction 206
X-ray Multi-Mirror 122
Xenon 184, 221
Xu, Fei 392

Y

Yamada, Yuichiro 387
Yang, Peidong 83
Yazdani, Ali 93
Yeh, Edward T.H. 245
Yngve, Gary D. 57
Yoshimura, Chiaki 286
Young, Larry A. 332
Young, Mark 69
Yttrium silicate 94
Yu, Ping 309
Yucca Mountain nuclear waste site. *See* Nuclear waste

Z

Zahler, Peter 170
Zebra mussels. 234, 339
Zhang, Jianzhi 181
Zhao, Shen. 7
Zhou, Jiayu 78
Ziegler, Michael 377
Zimm, Carl B. 4
Zollikofer, Christoph P.E. . . 261
Zompro, Oliver. 271
Zooplankton 205
Zuckerman, Ben 280
Zuker, Charles S. 222